

Computations

Name Mirayla Bennett

Class 5/6A Date 16.11.2010

Progression Points

- 3.25 Appropriate selection and use of mental and written algorithms to add and subtract, multiply and divide (by single digits) natural numbers.
- 3.5 Addition, subtraction and multiplication of decimals to one decimal place using approximations such as whole number estimates and technology to confirm accuracy.
- 3.75 Multiplication by increasing and decreasing by a factor of two; for example $24 \times 16 = 48 \times 8$. Recognition that multiplication can either enlarge or reduce the magnitude of a number. Use the inverse relationship between multiplication and division.
- 4.0 Add, subtract and multiply and divide whole numbers and decimals in problem solving situations.
- 4.0+ Solve unusual problems involving a number of steps.

3.25

1. Solve these.

a $\begin{array}{r} 564 \\ + 346 \\ \hline 910 \end{array}$	b $\begin{array}{r} 5746 \\ + 3594 \\ \hline 9340 \end{array}$	c $\begin{array}{r} 36975 \\ + 85432 \\ \hline 123407 \end{array}$
d $\begin{array}{r} 694 \\ - 537 \\ \hline 157 \end{array}$	e $\begin{array}{r} 5000 \\ - 213 \\ \hline 4787 \end{array}$	f $\begin{array}{r} 5790 \\ - 369 \\ \hline 5421 \end{array}$
g $\begin{array}{r} 256 \\ \times 4 \\ \hline 1024 \end{array}$	h $\begin{array}{r} 186 \\ \times 50 \\ \hline 930 \end{array}$	i $\begin{array}{r} 523 \\ \times 53 \\ \hline 1569 \\ 2615 \\ \hline 4184 \end{array}$
j $\begin{array}{r} 213 \\ 4 \overline{)852} \end{array}$	k $\begin{array}{r} 1951 \\ 5 \overline{)976} \end{array}$	l $\begin{array}{r} 5242 \\ 7 \overline{)3672} \end{array}$

3.5

a $\begin{array}{r} 36.7 \\ + 23.5 \\ \hline 60.2 \end{array}$	b $\begin{array}{r} 364.7 \\ + 248.7 \\ \hline 613.4 \end{array}$	c $\begin{array}{r} 3574.2 \\ + 346.6 \\ \hline 3933.7 \end{array}$
d $\begin{array}{r} 84.8 \\ - 26.3 \\ \hline 58.5 \end{array}$	e $\begin{array}{r} 367.4 \\ - 108.8 \\ \hline 258.6 \end{array}$	f $\begin{array}{r} 3579.4 \\ - 2036.8 \\ \hline 1542.6 \end{array}$
g $\begin{array}{r} 2.7 \\ \times 5 \\ \hline 13.5 \end{array}$	h $\begin{array}{r} 35.9 \\ \times 8 \\ \hline 287.2 \end{array}$	i $\begin{array}{r} 185.7 \\ \times 6 \\ \hline 1114.2 \end{array}$

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3.75

5 Solve these.

a $12 \times \frac{3}{4} = \frac{36}{4} = 9$ b $16 \times \frac{3}{8} = \frac{48}{8} = 6$ c $24 \times \frac{2}{3} = \frac{48}{3} = 16$ d $35 \times \frac{3}{5} = \frac{105}{5} = 21$

6 When you multiply a whole number by a simple fraction is the answer always smaller than the number you started with? YES! ↓

7 Show how you can check the accuracy of these divisions using multiplication. Put a cross or a tick on the divisions after you have checked them with your multiplications.

a $\begin{array}{r} 212 \\ 3 \overline{)636} \\ \underline{636} \end{array}$ ✓	b $\begin{array}{r} 174 \\ 4 \overline{)596} \\ \underline{696} \end{array}$ ✓ X	c $\begin{array}{r} 912 \\ 8 \overline{)7296} \\ \underline{7296} \end{array}$ ✓
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4.0



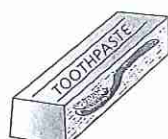
\$88.00



\$28.00



\$64.00



\$3.40



\$7.65



\$65.50

8 Solve the problems.

a	If Avril saved \$8 a week for 7 weeks, how much more would she need to save to buy the roller blades? \$32.00 ✓	b	Corinne bought a walkman, a video game, a toothpaste and a chicken. How much did she spend? \$140.61 or \$140.60
c	Tom only paid $\frac{3}{4}$ of the price for the walkman. How much change did he receive from \$50? \$ _____	d	Tina bought 5 chickens and 3 toothpastes at the supermarket. How much change did she get from \$50? \$4.95
e	Tony's mother paid $\frac{3}{8}$ of the price of his new roller blades and left him to pay the rest. How much would Tony have to pay? \$ _____	f	Jackson wants to buy 5 CDs because he gets a 25% discount. How much will Jackson pay for his 5 CDs? \$35.00

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9 Write the numbers that are represented below.

	Problem	Answer
a	$(4 \times 10^4) + (3 \times 10^3) + (5 \times 10^2) + (6 \times 10) + (9 \times 1) =$	43569 ✓
b	$(4 \times 10) + (7 \times 1) + (6 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) =$	4807 $\frac{1}{1000}$
c	$10^5 + 4^4 =$	140000

- 10
- Jack's truck and Wally's truck have stopped at a service station in the desert for food, fuel and sleep.
 - At 6 a.m. in the morning Jack's truck leaves the service station and drives along a straight highway at an average speed of 80 km/h.
 - Wally's truck leaves one hour later at 7 a.m. and drives the same highway at an average speed of 100 km/h.



At what time in the day do the two trucks meet if neither of them stop?

Time = _____

- 11 Janice is carpeting her combined lounge and dining room at a cost of \$77 per m² for carpet and \$36 per m² for laying the carpet.

Use the scale and the diagram to calculate how much it will cost her.

Cost = \$ _____

Scale 1 cm = 1 m

